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TELEVISION TELEPHONE DEVICE
[Terebi denwa sochi]

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Claims

1. A television telephone device characterized by the following facts: the television telephone device has the following parts: an image pickup part that picks up the image of the user, an image display part that displays the image of the user and the received image, a handset that carries out voice input/output, an image codec part that compresses and encodes the video data input from said image pickup part and, at the same time, carries out extension/decoding of the compressed/encoded video data and outputs them to said image display part, a voice codec part that compresses/encodes the audio data input from said handset, and, at the same time, extends/decodes the compressed/encoded audio data and has them output to said handset, a multiplexing/separating part that multiplexes the video data encoded in said image codec part and the audio data encoded in said voice codec part, and, at the same time, has the multiplexed video/audio data separated and output to said image codec part and voice codec part, a line interface part that transmits the video/audio data multiplexed in said multiplexing/separating part to said communication line, and, at the same time, outputs the video/audio data received via a communication line to said multiplexing/separating part, a key input part that carries out input of telephone number and selection of function, etc., a mode switching part that switches the mode between the normal mode and the telephone answering mode, and an automatic answering control part that automatically answers the incoming call while said mode switching part is in telephone answering mode; in this television telephone device, there are the following parts: a telephone number registration part for registering the telephone number, a voice message storage part that stores one or several answering messages as voice messages, an image message storage part that stores one or several image answering messages, a message selecting condition registration part that registers which of the answering messages stored in said voice message storage part and said image message storage part or their combination is output corresponding to whether the telephone number of the received sender terminal is registered in said

telephone number registration part, a message selection control part that selects and sends the answering message based on the condition registered in said message selection condition registration part, and an automatic-answering-state incoming call recording part for recording the telephone number of the received communication terminal when said mode switching part is in the telephone answering mode.

2. The television telephone device described in Claim 1 characterized by the fact that it has the following parts: a clock calender part that outputs the time/day, a message selection condition registration part that registers which of the answering messages stored in said voice message storage part and said image message storage part or their combination is output corresponding to whether the telephone number of the received sender terminal is registered in said telephone number registration part, and a message selection control part that determines the reception time/day by taking said clock calender part as reference when said mode switching part is in the automatic telephone answering mode, and that selects the answering message based on their registration in said message selecting condition registration part.

Detailed explanation of the invention

[0001]

Industrial application field

The present invention pertains to a television telephone device that is connected to a communication line and can carry out communication using both voice and image.

[0002]

Prior art

In recent years, with the advent of international standardization of image encoding system and wide use of high speed digital transmission lines easily and at a low cost, various companies have started publishing television telephone devices that carry out communication by means of both moving picture and voice. Especially, companies have developed various types of television telephone devices with the telephone answering function.

[0003]

In the following, explanation will be given on the television telephone device of the prior art. Figure 8 is a block diagram illustrating such a television telephone device in the prior art. It has the following parts: image pickup part (1) that takes the picture of the user, image display part (2) that displays the image of the user and the received image, handset (3) that carries out input/output of the voice, image codec part (4) that compresses and encodes the video data input from said image pickup part (1) and, at the same time, carries out extension/decoding of the compressed/encoded video data and outputs them to said image display part (2), voice codec part (5) that compresses/encodes the audio data input from said handset (3), and, at the same time, extends/decodes the compressed/encoded audio data and has them output to said handset (3), multiplexing/separating part (6) that multiplexes the video data encoded in said image codec part (4) and the audio data encoded in said voice codec part (5) and, at the same time, separates and outputs the multiplexed video/audio data to said image codec part (4) and voice codec part (5), line interface part (7) that transmits the video/audio data multiplexed in said multiplexing/separating part (6) to ISDN line, and, at the same time, outputs the video/audio data received via ISDN line to said multiplexing/separating part (6), key input part (8) that carries out input of telephone number and

selection of function, etc., mode switching part (9) that switches the mode between the normal mode and the telephone answering mode, overall control part (10) that controls the overall television telephone device based on the instruction sent from key input part (8) and mode switching part (9), an automatic answering control part (11) that automatically answers the incoming call while said mode switching part (9) is in the telephone answering mode, and answering message storage part (12) that stores the answering message sent from automatic answering control part (11).

[0004]

For the television telephone device in the prior art with said constitution, the operation in the telephone answering mode will be explained below. At first, the user has the answering message in 1 type of automatic telephone answering mode registered in answering message storage part (12). Then, the user has mode switching part (9) set in the automatic telephone answering mode. As a result, overall control part (10) is set such that automatic answering is carried out when automatic answering control part (11) receives the incoming call. Then, line interface part (7) detects the incoming call by receiving the call setting message from the ISDN line. Then, line interface part (7) analyzes the call setting message, and notifies automatic answering control part (11) of the incoming call. In this way, automatic answering control part (11) instructs line interface part (7) to send the call reception message to the ISDN line. Then, upon receiving it, line interface part (7) sends the call reception message to the ISDN line. As a result, connection to the counterpart is ended. Then, after end of said connection, automatic answering control part (11) controls so that the answering message stored in answering message storage part (12) is sent to the ISDN line. As a result, the answering message is sent via multiplexing/separating part (6) and line interface part (7) to the ISDN line, and to the sender terminal (not shown in the figure). When line interface part (7) receives a cutoff message from the sender terminal (not shown in the

figure), automatic answering control part (11) instructs line interface part (7) to send an opening finish message to the ISDN line, and, at the same time, it stops sending of the answering message, so that the automatic telephone answering mode is ended.

[0005]

Problems to be solved by the invention

In said constitution of the prior art, only one type of the answering message can be stored in the answering message storage part, and the same answering message is played unconditionally for any counterpart. Consequently, it is impossible to give appropriate answers with different answering messages corresponding to the sender, the receiving time/day, etc., so that it does not have the universal applicability. This is undesirable. Also, each time the answering message is to be changed, one has to re-register the answering message. This is tedious and requires a significant time of operation. Consequently, the operability is poor. In addition, it is impossible to find out the telephone number of the counterpart sender in the automatic telephone answering mode. The convenience is poor, and this is undesirable.

[0006]

The purpose of the present invention is to solve the aforementioned problems of the prior art by providing a television telephone device characterized by the fact that it can change the answering message automatically corresponding to the sender counterpart, the reception time and day, etc., so that it has excellent universal applicability; by simply assigning the other pre-registered answering messages, it is possible to change the answering message so that the operability is excellent; and it is possible to

find out the telephone number of the sender counterpart in the automatic telephone answering mode, so that this television telephone device is very convenient.

[0007]

Means to solve the problems

In order to realize the aforementioned purpose, the invention described in Claim 1 provides a television telephone device characterized by the following facts: the television telephone device has the following parts: an image pickup part that picks up the image of the user, an image display part that displays the image of the user and the received image, a handset that carries out voice input/output, an image codec part that compresses and encodes the video data input from said image pickup part and, at the same time, carries out extension/decoding of the compressed/encoded video data and outputs them to said image display part, a voice codec part that compresses/encodes the audio data input from said handset, and, at the same time, extends/decodes the compressed/encoded audio data and has them output to said handset, a multiplexing/separating part that multiplexes the video data encoded in said image codec part and the audio data encoded in said voice codec part and, at the same time, separates and outputs the multiplexed video/audio data to said image codec part and voice codec part, a line interface part that transmits the video/audio data multiplexed in said multiplexing/separating part to said communication line, and, at the same time, outputs the video/audio data received via a communication line to said multiplexing/separating part, a key input part that carries out input of telephone number and selection of function, etc., a mode switching part that switches the mode between the normal mode and the telephone answering mode, and an automatic answering control part that automatically answers the incoming call while said mode switching part is in telephone answering mode; in this television telephone device, there are the following parts: a telephone number registration part for registering the

telephone number, a voice message storage part that stores one or several answering messages as voice messages, an image message storage part that stores one or several image answering messages, a message selecting condition registration part that registers which of the answering messages stored in said voice message storage part and said image message storage part or their combination is output corresponding to whether the telephone number of the received sender terminal is registered in said telephone number registration part, a message selection control part that selects and sends the answering message based on the condition registered in said message selection condition registration part, and an automatic-answering-state incoming call recording part for recording the telephone number of the received communication terminal when said mode switching part is in the telephone answering mode. The invention described in Claim 2 pertains to the television telephone device described in Claim 1 characterized by the fact that it has the following parts: a clock calender part that outputs the time/day, a message selection condition registration part that registers which of the answering messages stored in said voice message storage part and said image message storage part or their combination is output corresponding to whether the telephone number of the received sender terminal is registered in said telephone number registration part, and a message selection control part, which determines the reception time/day by taking said clock calender part as reference when said mode switching part is in the automatic telephone answering mode, and which selects the answering message based on the condition of their registration in said message selecting condition registration part.

[0008]

Here, when the counterpart or time zone is out of those registered in the message selecting condition registration part, the incoming call is ignored and no answer is made for it. This is preferable from the viewpoint of universal applicability.

[0009]

Operation

With said constitution, plural answering messages are stored in the voice message storage part and image message storage part. Then, simply by checking which answering message should be sent to the counterpart by means of the message selecting condition registration part, when a call arrives in the automatic telephone answering mode, the message selecting control part can send the appropriate answering message corresponding to the condition registered in the message selecting condition registration part, so that the answering message can be changed automatically corresponding to the received [call from the] counterpart. Also, simply by changing the assignment in the message selecting condition registration part, it is possible to change the answering message to the other types stored beforehand. This is extremely easy. Also, because the automatic-answering-state incoming call recording part records the telephone number of the sender terminal that arrives in the automatic telephone answering mode, it is easy to find out who the counterpart called in the automatic telephone answering mode. In addition, because there is a clock calendar part, it is possible to change the answering message automatically corresponding to the specific time/day when the call arrives.

[0010]

Application examples

Application Example 1

In the following, the television telephone device in an application example of the present invention will be explained with reference to figures. Figure 1 is a block diagram illustrating the television telephone device in an application example of the present invention. Here, there are the following parts:

image pickup part (1), image display part (2), handset (3), image codec part (4), voice codec part (5), multiplexing/separating part (6), line interface part (7), key input part (8), mode switching part (9), overall control part (10) and automatic answering control part (11). These are the same as those in the prior art, so that they will not be explained again. Also, it has telephone number registration part (13) for registering the telephone number, voice message storage part (14) that stores one or several answering messages as voice messages, image message storage part (15) that stores one or several image answering messages, message selecting condition registration part (16) that registers which of the answering messages stored in said voice message storage part and said image message storage part or their combination is output corresponding to whether the telephone number of the received sender terminal is registered in said telephone number registration part, message selection control part (17) that selects and sends the answering message based on the condition registered in said message selection condition registration part, and automatic-answering-state incoming call recording part (18) for recording the telephone number of the received communication terminal when said mode switching part is in the telephone answering mode.

[0011]

For the television telephone device in an application example of the present invention with said constitution, the operation will be explained below. Figure 2 is a diagram illustrating the message selecting condition image of the television telephone device in the application example of the present invention. Figure 3 is a diagram illustrating the message individual assignment picture of the television telephone device in an application example of the present invention. Figure 4 is a flow chart illustrating the television telephone device of the present invention. Here, DV indicates that the sender terminal has its telephone number registered in telephone number registration part (13) and it is a television

telephone. DL indicates that the telephone number is registered and it is a conventional telephone. TV indicates that the telephone number is not registered and it is a television telephone. TL indicates that the telephone number is not registered and it is a conventional telephone. A1-A7 are registration numbers of the individual voice answering messages stored in voice message storage part (14). V1-V5 are registration numbers of the individual image answering messages stored in image message storage part (15). First of all, the user assigns A1 or other registration number, and carries out registration of the plural answering messages by means of voice. The voice answering message is compressed/encoded by voice codec part (5), followed by adding said registration number and then storage in voice message storage part (14). Then, similarly, V1 or other registration number is assigned, and plural image answering message is registered. After the image answering message is compressed/encoded by means of image codec part (4), said registration number is added and the message is stored in image message storage part (15). Then, as shown in Figure 2, on the message selecting condition setting image, the user determines the condition for sending each answering message. Here, the conditions are registered in message selecting condition registration part (16). For example, as shown in Figure 2, when the telephone number of the sender terminal is not registered in telephone number registration part (13) and the sender terminal is a television telephone (TV), as the answering message, it is set such that voice answering message A3 and image answering message V3 are simultaneously output. Also, when the answering message for individually specifying each counterpart registered in telephone number registration part (13) about the telephone number and the terminal type as whether the telephone is a television telephone is to be sent, on the individual message assignment image shown in Figure 3, in the telephone number list registered in telephone number registration part (13), the registration number of the answering message to be sent to the counterpart is set. Here, said setting schemes are registered in message selecting condition registration part (16) beforehand just as mentioned previously. For example,

for Mr. PQR, it is set such that after the answering message by the voice of A6, the voice of A7 is used to output the answering message.

[0012]

In the following, explanation will be given on the receiving operation when mode switching part (9) is set in the automatic telephone answering mode. As shown in Figure 4, first of all, line interface part (7) is notified with the incoming call as it receives the call setting message from the ISDN line. Then, line interface part (7) analyzes the call setting message, and it carries out incoming call notification to automatic answering control part (11). Then, automatic answering control part (11) outputs the sender terminal's telephone number and terminal type to message selecting control part (17). Then, message selecting control part (17) records the telephone number and terminal type of the sender terminal that have been output in automatic-answering-state incoming call recording part (18) (S1). Then, message selecting control part (17) analyzes whether the answering message corresponding to the sender counterpart that fits the telephone number and terminal type is input to message selecting condition registration part (16) (S2). Then, as a return of said analysis, whether the answering message corresponding to the sender counterpart has been input to message selecting condition registration part (16) (S3). When it has not been input, message selecting control part (17) instructs automatic answering control part (11) to ignore the incoming call, and the entire processing comes to an end (S4). On the other hand, when it has been input, message selecting control part (17) instructs automatic answering control part (11) to carry out connection (S5). Then, automatic answering control part (11) instructs line interface part (7) to send the connection message to the ISDN line. Then, according to this instruction, line interface part (7) finishes connection to the counterpart by sending a call reception message to the ISDN line. On the other hand, message selecting control part (17) selects the answering message

corresponding to the sender counterpart according to the condition registered in message selecting condition registration part (16) from voice message storage part (14) and image message storage part (15) (S6). Then, it checks whether connection to the sender counterpart is ended (S7). If NO, it jumps to S7 to standby end of connection. If YES, the answering message selected in S6 is read from voice message storage part (14) and image message storage part (15), and the messages are sent to multiplexing/separating part (6) and the result is sent via line interface part (7) to the ISDN line and to the sender terminal (S8). The voice and image from the sender counterpart are recorded in automatic-answering-state incoming call recording part (18). Then, after the answering message is sent, it checks whether the cutoff message has been received from the sender terminal (S9). If NOT, it jumps to S9 to standby for reception of the cutoff message from the sender terminal. If YES, automatic answering control part (11) instructs line interface part (7) to send the opening end message to the ISDN line, and, at the same time, sending of the answering message is stopped, and all of the processing comes to an end (S10).

[0013]

Application Example 2

In the following, the television telephone device in Application Example 2 of the present invention will be explained with reference to figures. Figure 5 is a block diagram illustrating the television telephone device in Application Example 2 of the present invention. Here, it has image pickup part (1), image display part (2), handset (3), image codec part (4), voice codec part (5), multiplexing/separating part (6), line interface part (7), key input part (8), mode switching part (9), overall control part (10), automatic answering control part (11), telephone number registration part (13), voice message storage part (14), image message storage part (15), and automatic-answering-state incoming call recording part

(18). These are the same as those in Application Example 1, and they will not be explained again. In addition, it has clock calendar part (19) that outputs the time/day, message selection condition registration part (20) that registers which of the answering messages stored in said voice message storage part (14) and said image message storage part (15) or their combination is output corresponding to whether the telephone number of the received sender terminal is registered in said telephone number registration part (13), and message selection control part (21), which determines the reception time/day by taking said clock calendar part (19) as reference when said mode switching part (9) is in the automatic telephone answering mode, and which selects the answering message based on the condition of their registration in said message selecting condition registration part (20).

[0014]

For the television telephone device in Application Example 2 of the present invention with said constitution, the operation will be explained below. Figure 6 is a diagram illustrating the message selecting condition image of the television telephone device in Application Example 2 of the present invention. Figure 7 is a flow chart illustrating the television telephone device in Application Example 2 of the present invention. Here, DV indicates a registered television telephone. DL indicates a registered conventional telephone. A1-A6 indicate the voice answering messages. V1-V6 indicate the image answering messages. They are the same as those in Application Example 1, so that they will not be explained again. Also, AM indicates morning time, and PM indicates afternoon time. The numerals after AM, PM indicate the time. WD indicates the weekday, and HO indicates the [weekend or] holiday. First of all, the user assigns A1 or other registration number, and carries out registration of the plural voice/image answering messages just as in Application Example 1. Then, as shown in Figure 6, on the message selecting condition setting image, the user determines the individual answering messages

according to the day/time. Here, their conditions are registered in message selection condition registration part (20). For example, as shown in Figure 6, suppose the telephone number of the sender terminal is not registered in telephone number registration part (13), and the call time is on the weekday (WD) at the time from AM00 to AM01, voice answering message A4 is taken as the answering message, while image answering message V4 is output at the same time according to the setting. Also, MON+PM or other combination of time and day may be adopted. As shown in Application Example 1, for the counterpart with telephone number registered in telephone number registration part (13), it may be set such that the prescribed answering message is sent individually.

[0015]

In the following, the call reception operation will be explained in the case when mode switching part (9) is set in the automatic telephone answering mode. As shown in Figure 7, first of all, the telephone number and terminal type of the sender counterpart and the incoming call date and time obtained from clock calender part (19) are registered in automatic-answering-state incoming call recording part (18) (S11). Then, just as in Application Example 1, analysis is carried out on whether the telephone number and terminal type of the sender counterpart are input (S2). Then, just as in Application Example 1, it checks whether the condition has been input and analyzed in S2 (S3). If NOT, just as in Application Example 1, the call is ignored, and all of the processing is ended (S4). If YES, just as in Application Example 1, automatic answering control part (11) is instructed to make connection (S5). Then, message selection control part (21) checks whether day/time has been assigned in message selection condition registration part (20) (S12). If NOT, just as in Application Example 1, the appropriate voice message and image message fitting the condition are selected, and it jumps to S7. If YES, message selection control part (21) reads the call's day and time of reception from clock calender part (19), and the

answering message corresponding to the assigned day/time condition is selected from voice message storage part (14) and image message storage part (15) (S13). Then, just as in Application Example 1, it checks whether connection has come to an end (S7). If NOT, it stands by for end of connection by jumping to S7. If YES, just as in Application Example 1, the answering message selected in S6 of S12 is read and sent (S8), and, at the same time, the voice and image sent from the sender counterpart is recorded. Then, just as in Application Example 1, it checks whether a cutoff message has been received (S9). If NOT, it jumps to S9 to standby the cutoff message. If YES, just as in Application Example 1, sending of the answering message is stopped, and the entire processing is ended (S10).

[0016]

Effects of the invention

As explained above, according to the present invention, plural answering messages are stored in the voice message storage part and image message storage part. Then, simply by checking which answering message should be sent to the counterpart by means of the message selecting condition registration part, when a call arrives in the automatic telephone answering mode, the message selecting control part can send the appropriate answering message corresponding to the condition registered in the message selecting condition registration part, so that the answering message can be changed automatically corresponding to the received [call from the] counterpart. Also, simply by changing assignment in the message selecting condition registration part, it is possible to change the answering message to the other types stored beforehand. This is extremely easy. Also, because the automatic-answering-state incoming call recording part records the telephone number of the sender terminal that arrives in the automatic telephone answering mode, it is easy to find out who the counterpart called in the automatic telephone

answering mode. In addition, because there is a clock calendar part, it is possible to change the answering message automatically corresponding to the specific time/day when the call arrives.

Brief description of the figures

Figure 1 is a block diagram illustrating the television telephone device in an application example of the present invention.

Figure 2 is a diagram illustrating the message selecting condition setting image of the television telephone device in the application example of the present invention.

Figure 3 is a diagram illustrating the individual message assigning image of the television telephone device in the application example of the present invention.

Figure 4 is a flow chart illustrating the television telephone device in an application example of the present invention.

Figure 5 is a block diagram illustrating the television telephone device in Application Example 2 of the present invention.

Figure 6 is a diagram illustrating the message selecting condition setting image of the television telephone device in Application Example 2 of the present invention.

Figure 7 is a flow chart illustrating the television telephone device in Application Example 2 of the present invention.

Figure 8 is a block diagram illustrating the television telephone device in the prior art.

Explanation of symbols

- 1 Image pickup part
- 2 Image display part
- 3 Handset
- 4 Image codec part
- 5 Voice codec part
- 6 Multiplexing/separating part
- 7 Line interface part
- 8 Key input part
- 9 Mode switching part
- 10 Overall control part
- 11 Automatic answering control part
- 12 Answering message storage part
- 13 Telephone number registration part
- 14 Voice message storage part
- 15 Image message storage part
- 16 Message selecting condition registration part
- 17 Message selecting control part
- 18 Automatic-answering-state incoming call recording part
- 19 Clock calender part
- 20 Message selection condition registration part
- 21 Message selection control part

- 7 Line interface part
- 8 Key input part
- 9 Mode switching part
- 10 Overall control part
- 11 Automatic answering control part
- 13 Telephone number registration part
- 14 Voice message storage part
- 15 Image message storage part
- 16 Message selecting condition registration part
- 17 Message selecting control part
- 18 Automatic-answering-state incoming call recording part

(a) メッセージ選択条件
メッセージ選択条件を入力してください

(b) 条 件	応答メッセージ (c)
1. DV	A1+V1
2. DL	A2
3. TV	A3+V3
4. TL	A4
5.	
6.	
7.	

Figure 2

- Key: a Message selecting condition
Please input the message selecting condition.
- b Condition
- c Answering message

(b)	名 前	(c) 番 号	応 答	(d)
	1. ABC	0123456789	A1+V1	
	2. DEF	1357901099	A2	
	3. GHI	2468010000	A3+V3	
	4. JKL	3691234594	V4	
	5. MNO	1111111111	A5+V5	
	6. PQR	1212121212	A6+A7	
	7. STU	2323232323		
	8. VWX	9999999999		
	9. YZ	1009975430		
	10. ZZZ	0987876660		

Figure 3

- Key: a Telephone number list
- b Name
- c Telephone number
- d Answering

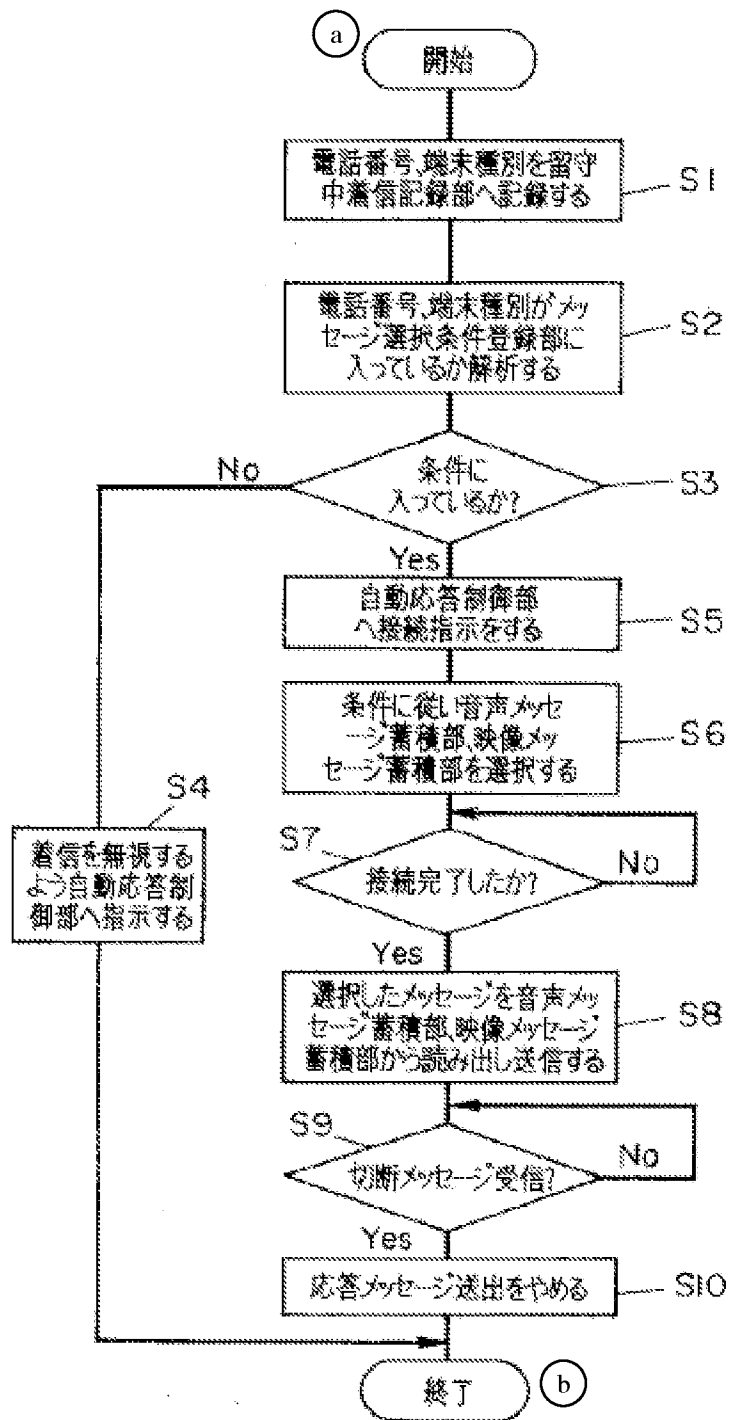


Figure 4

- Key: a START
- b END
- S1 Record telephone number and terminal type in automatic-answering-state incoming call recording part
- S2 Checking on whether telephone number and terminal type have been input to message selecting condition registration part
- S3 Has it been input to the condition?
- S4 Instruct the automatic answering control part so that the incoming call is ignored
- S5 Instruct the automatic answering control part to connect
- S6 Select the voice message storage part and image message storage part according to the condition
- S7 Has connection ended?
- S8 Read the selected message from the voice message storage part and image message storage part and send it
- S9 Has the cutoff message been received?
- S10 Stop sending of answering message

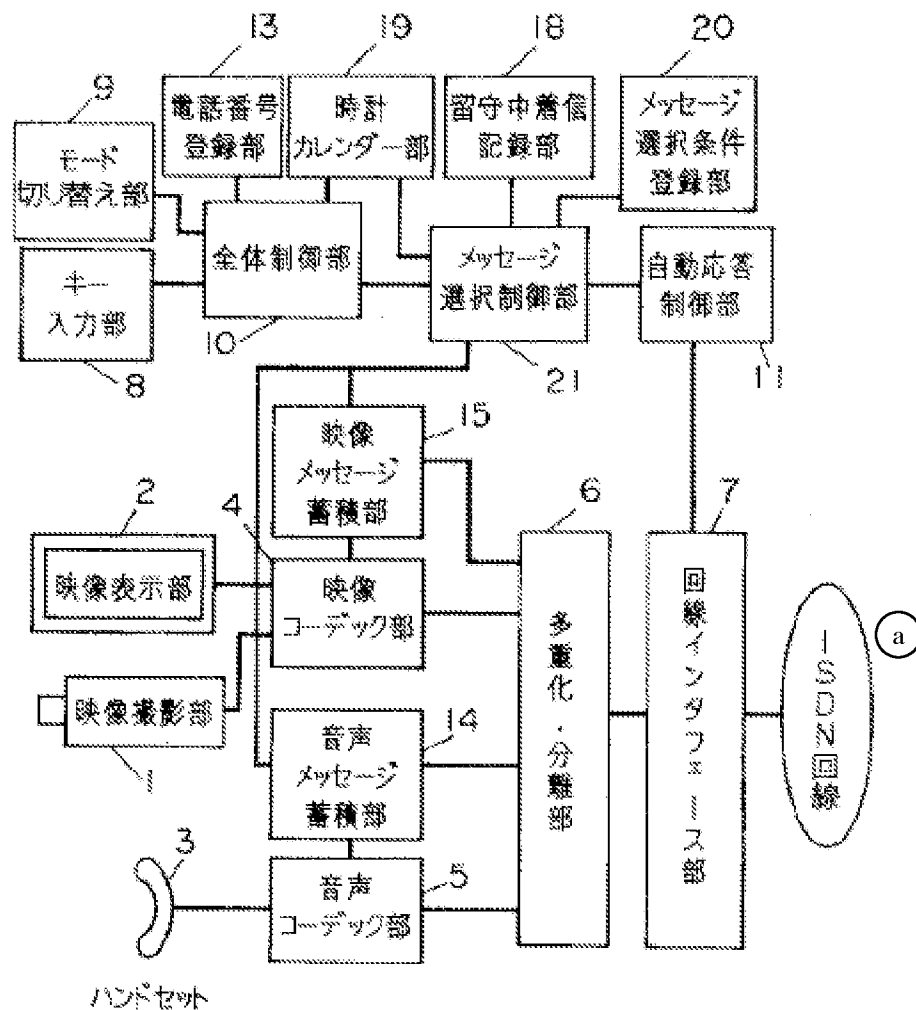


Figure 5

- Key: a ISDN line
- 1 Image pickup part
- 2 Image display part
- 3 Handset
- 4 Image codec part
- 5 Voice codec part
- 6 Multiplexing/separating part

- 7 Line interface part
- 8 Key input part
- 9 Mode switching part
- 10 Overall control part
- 11 Automatic answering control part
- 13 Telephone number registration part
- 14 Voice message storage part
- 15 Image message storage part
- 18 Automatic-answering-state incoming call recording part
- 19 Clock calender part
- 20 Message selection condition registration part
- 21 Message selection control part

a メッセージ選択条件
メッセージ選択条件を入力してください

b	条 件	宛番メッセージ	c
1.	OV	A1+V1	
2.	OL	A2	
3.	AM+WD	A3+V3	
4.	AMQ:00~5:00+WD	A4+V4	
5.	PM:00~+WD	A5+V5	
6.	NO	A6+V6	
7.			

Figure 6

Key: a Message selecting condition

Please input the message selecting condition.

b Condition

c Answering message

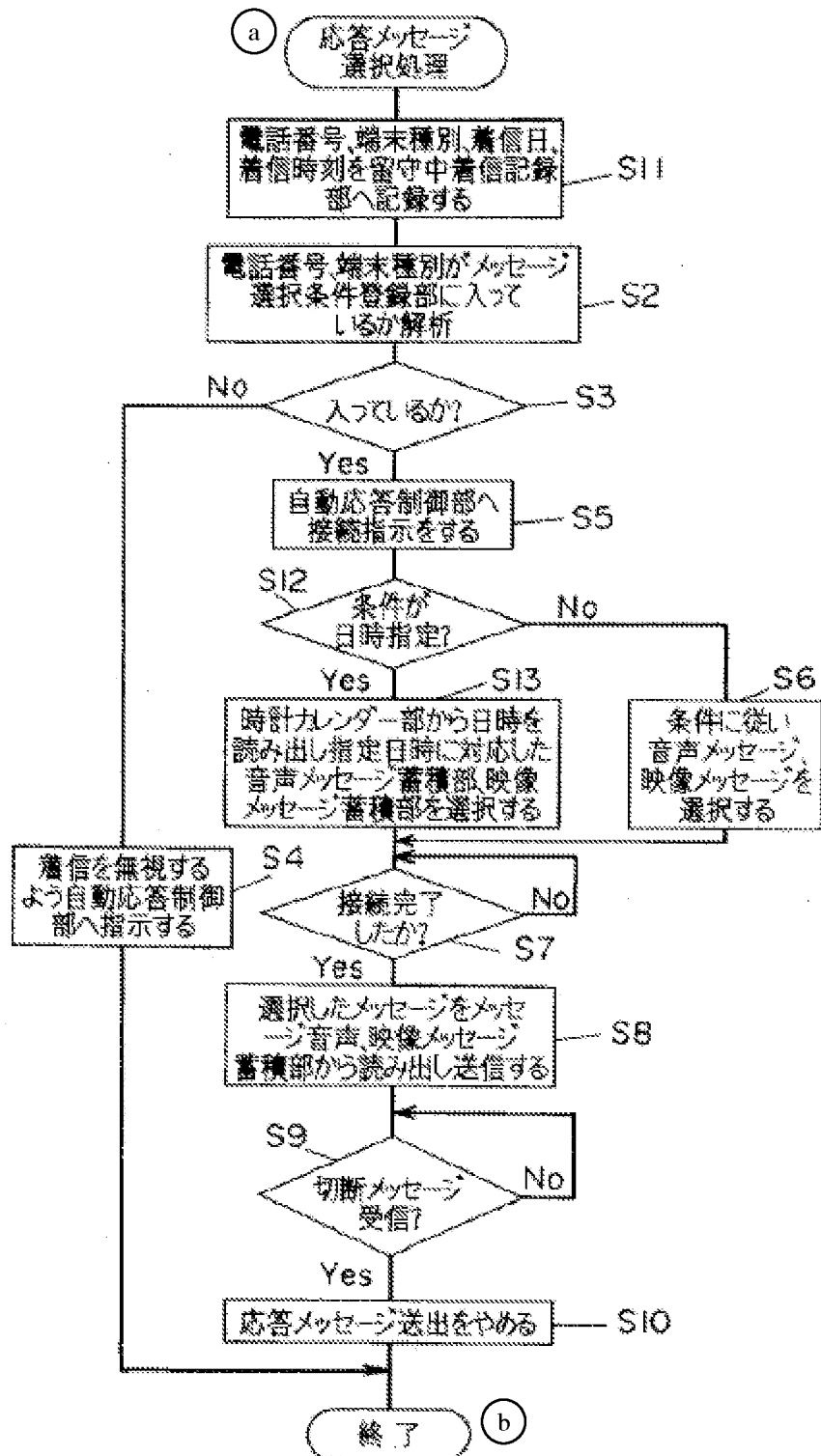


Figure 7

- Key: a START
- b END
- S1 Record telephone number and terminal type in automatic-answering-state incoming call recording part
- S2 Checking on whether telephone number and terminal type have been input to message selecting condition registration part
- S3 Has it been input?
- S4 Instruct the automatic answering control part so that the incoming call is ignored
- S5 Instruct the automatic answering control part to connect
- S6 Select the voice message storage part and image message storage part according to the condition
- S7 Has connection ended?
- S8 Read the selected message from the voice message storage part and image message storage part and send it
- S9 Has the cutoff message been received?
- S10 Stop sending of answering message
- S12 Condition instructs the day/time?
- S13 Read the day/time from the clock calender part and select the voice message storage part and image message storage part corresponding to the assigned day/time

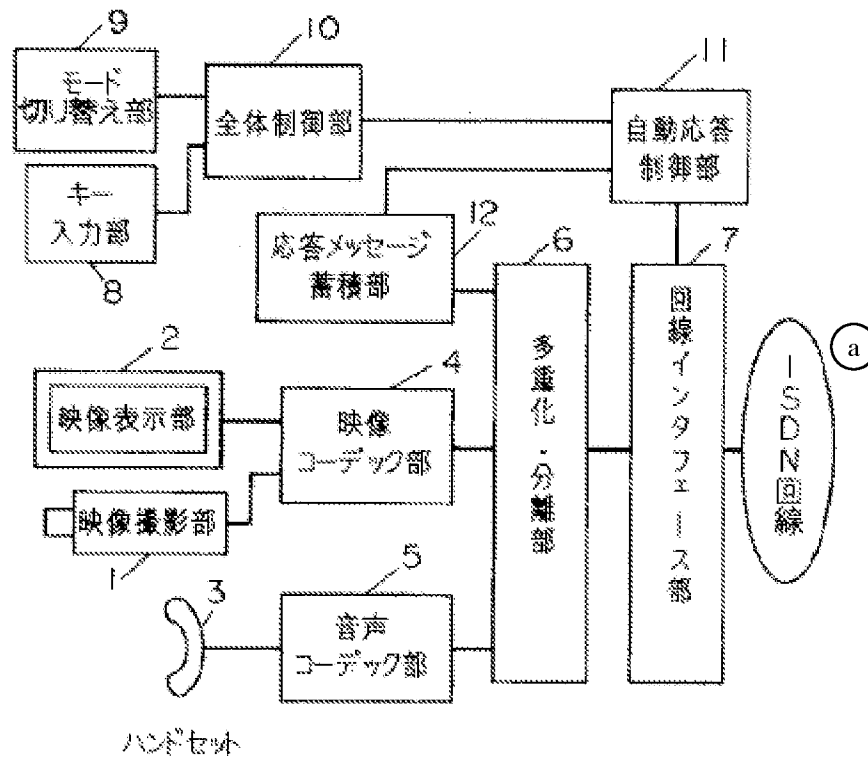


Figure 8

- Key: a ISDN line
- 1 Image pickup part
 - 2 Image display part
 - 3 Handset
 - 4 Image codec part
 - 5 Voice codec part
 - 6 Multiplexing/separating part
 - 7 Line interface part
 - 8 Key input part
 - 9 Mode switching part

- 10 Overall control part
- 11 Automatic answering control part
- 12 Answering message storage part